



## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

ARIMURA, Akinori et al.

Conf.:

3377

Appl. No.:

09/980,475

Group:

1614

Filed:

December 3, 2001

Examiner: Unassigned

For:

TH2 DIFFERENTIATION INHIBITORS

# L E T T E R

Assistant Commissioner for Patents Washington, DC 20231

March 26, 2002

Sir:

0032-0264P

Subsequent to the filing of the above-identified application on December 3, 2001, attached hereto is an English translation of the International Preliminary Examination Report (IPEA 409) which should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Stewart, #21,066

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(Rev. 02/20/02)

To:

PCT/JP00/04725

MAR. - 5. 2002 P. DEP SHIONOG.

PCT

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

YAMAUCHI, Hideaki Shionogi & Co., Ltd. Intellectual **Property Department** 

12-4, Sagisu 5-chome

Fukushima<sub>tkys</sub> <del>Ocaka</del> Osaka 553-JAPON

51-06041WD Response

Date of mailing (day/month/year) 20 February 2002 (20.02.02)

Applicant's or agent's file reference 51-06041WO

International application No.

PCT/JP00/04725

IMPORTANT NOTIFICATION

International filing date (day/month/year) 14 July 2000 (14.07.00)

Applicant

SHIONOGI & CO., LTD. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,AT,CA,CH,CN,FI,NO,NZ,RO,RU,SK,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AG,AL,AM,AU,AZ,BA,BB,BG,BR,BY,BZ,CR,CU,CZ,DE,DK,DM,DZ,EE,ES,GB,GD,GE,GH, GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ, PL,PT,SD,SE,SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

**Eliott PERETTI** 

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

# PATENT COOPERATION TEATY PCT INTERNATIONAL PRELIMINARY EXAMINATION PEPORTUPE (PCT Article 36 and Rule 70) (PCT Article 36 and Rule 70)

Applicant's or agent's file reference 51-06041WO	FOR FURTHER ACTION  SeeNotification of Transmittal of International Examination Report (Form PCT/IPEA/416)		tionofTransmittalofInternations beeliminary n Report (Form PCT/IPEA/416)			
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)			
PCT/JP00/04725	14 July 2000 (14	.07.00)	23 July 1999 (23.07.99)			
International Patent Classification (IPC) or n A61K 31/09, 31/136, 31/15, 31/1 213/77, 237/10, 239/28, 241/14,	235, 31/4418, 31/4965, 31	/50, 31/505, C0	07C 217/80, C07D 213/64, 213/74,			
Applicant	SHIONOGI & CO	o., LTD.				
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a total of	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.						
3. This report contains indications rela	3. This report contains indications relating to the following items:					
I Basis of the report						
II Priority						
III Non-establishment	of opinion with regard to nov	elty, inventive st	ep and industrial applicability			
IV Lack of unity of inv	rention					
V Reasoned statement citations and explan	under Article 35(2) with reg actions supporting such staten	ard to novelty, in ment	eventive step or industrial applicability;			
VI Certain documents	cited					
VII Certain defects in th	ne international application					
VIII Certain observation	s on the international applica	ion				
Date of submission of the demand	Dat	e of completion of	of this report			

28 July 2001 (28.07.2001)

Authorized officer

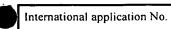
Telephone No.

Name and mailing address of the IPEA/JP

Facsimile No.

10 October 2000 (10.10.00)





PCT/JP00/04725

With regard to the elements or the international application as originally filed   the description: pages   1-88	1. B	ISIS U	I the re	port		
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pages			the inte	rnational application as originally filed		
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pages			pages	1-88		, as originally filed
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pages					, as amended (together	with any statement under Article 19
the drawings: pages page						, filed with the demand
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2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.  The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.  The amendments have resulted in the cancellation of:  the description, pages  the claims, Nos.  the drawings, sheets/fig  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**  *Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).						
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT



International application No.

PCT/JP00/04725

III. Non-	establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The o	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be trially applicable have not been examined in respect of:
	the entire international application.
$\boxtimes$	claims Nos
becau	
$\boxtimes$	the said international application, or the said claims Nos. 19,20 relate to the following subject matter which does not require an international preliminary examination (specify):
thera	inventions set forth in Claims 19 and 20 relate to a method for treatment of the human body by apy, which does not require an international preliminary examination by the International minary Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
$\boxtimes$	no international search report has been established for said claims Nos
2. A mes	aningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acidence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.

## International application No.

# PCT/JP00/04725

atement			
Novelty (N)	Claims	1-18,21-23	YE
	Claims		NO
Inventive step (IS)	Claims	1-18,21-23	YE
	Claims		NO.
Industrial applicability (IA)	Claims	1-18,21-23	YE
	Claims		NC

2. Citations and explanations

Document 1: WO, 98/04508, A1 (Shionogi & Co., Ltd.) 5 February 1998 (05.02.98)

Document 2: Nikkei Bio Tech., "Nikkei Baio Saishin Yougo Jiten; 4th printing," Nikkei BP K.K. (30 June 1995) p. 644, "Helper T. Cell; Th."

Document 3: Tomio Tada, et al., "Menekigaku Yougo Jiten; 3rd printing," Saishin Igakusha (1 December 1993),

- p. 374, "Lupus nephritis"
- p. 414, "Myasthenia gravis"
- p. 587, "Ulcerative colitis"

Document 1 describes a selective inhibitor of IgE production that contains the compound set forth in Formula (I) of Claim 1, and it states that this compound has the effect of inhibiting the production of IL-4 and IL-5 in a strain of mouse T cells (p. 470-471).

Document 2 states that Th2 secretes IL-4 and IL-5, and document 3 states that ulcerative colitis, myasthenia gravis and lupus nephritis are autoimmune disorders and that immunosuppressants are used in treating them.

However, document 1 does not describe a Th2 differentiation inhibitory action, and persons skilled in the art cannot easily conceive of using the selective inhibitor of IgE production described in document 1 as a Th2 differentiation inhibitor, even when combined with the descriptions in documents 2 and 3.

Therefore, the inventions set forth in Claims 1-18 and 21-23 appear to be novel and appear to involve an inventive step.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT



International application No.

PCT/JP00/04725

# VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Formula (I) of Claim 1, Formula (Ib) of Claim 6 and Formula (Ic) of Claim 7 include an extremely wide range of compounds.

However, the Specification does not specifically disclose examples of Formula (I) in which either ring A, B, or C is a 5-membered heterocycle, X is a single bond, and  $R^1$  is combined with Y to form a nitrogencontaining ring; examples of Formula (Ib) in which C is a 5-membered heterocycle, and  $V^1$  and  $V^2$  are single bonds; and examples of Formula (Ic) in which either ring A, B, or C is a 5-membered heterocycle, and because the Th2 differentiation inhibitory action is only verified in a limited number of compounds, the Specification does not sufficiently support Claims 1, 6, and 7.